

1/31/91

PROMIS ANALYSIS

SOURCE CODE ANALYSIS

1. The beginning of each source module contains documentation listing the changes made to that module, in reverse chronological order. The Summary of Privately Funded Changes to PROMIS chart lists changes to source modules: the change number, bug report/request for change date, change date, programmer name, source module, description of change, and project charge code. Look in the program/module column for the name of the source module. Using the system editor software, bring the source module up on the screen. Review the documentation section for the associated change number in that source code.

On the off chance that this documentation has been deleted, look for change markers within the source code. All changes are book-marked in the following format:

before the change: *>* xxxx.mmddyy, where xxxx is the
change number

after the change: *<* xxxx.mmddyy

Use the editor to find this string, using a change number from the chart.

PROGRAM EXECUTION OR PROGRAM OUTPUT

1. Menu screens should wrap from last screen to the first menu screen. Before change 0044 was added, when the user reached the last menu screen, he had to key in MENU to go back to the first menu.
2. Review the Data Base Documentation Report (P10) to locate a translation record containing only one field (record label will usually say TRANS ... and four character record code will be TRxx). Bring up an Update screen, UPDT/Axxxx/(code). The cursor should be positioned at the beginning of the data entry field. This is change 0047.
3. Request an Update screen of any kind. Enter an error in any data field and an error in the next transaction request area. Error messages should be displayed to alert user to both errors. Before change 0056, only the data entry error would be displayed.
4. In the P10 report, locate a record definition in the Transaction section in which one field (same) occurs multiple times in the record. (The NOTE field is a good one to look for.) Find the field in the Data Element section of the P10. The transaction cross-reference column identifies all records where the field is defined. The record code for the multiple occurrence should be listed only once, not for each field occurrence. This is change 0317.
5. In the P10 report, see if the message "BLANK LINES SUPPRESSED (IN INQUIRY)?" appears at the end of the Translation Record section (immediately after the Logical Diagram). Adding this message is change 0325.
6. Program PR0015 produces a report of system generation options. Originally the report showed sections for definition of Summary Inquiries, Update screen series, dittoed data elements and triggered transactions, Report Module page formats, and Historical Purge options. Change 0271 added a new section showing the order of entries on Inquiry Menus screens. This section will list the order for Case-related menus and Indexed Inquiry menus. Indexed inquiry menu part may not be present, depending on the Adabas use of indexes.
7. Report from program PR0015 will show what Summary Inquiries are defined. Get the four-character code of one of these inquiries and perform the on-line request, QURY/Sxxxx/(case #), where xxxx is the summary inquiry code and case # is a number of a non-existent case. The message returned should be "CASE RECORD NOT ON FILE" rather than "ERROR IN PREP-FILE STATUS 23". This is change 0169 in source module PN9974.

OTHER PROGRAM EXECUTION OR PROGRAM OUTPUT

The following changes may or may not be found. The Generalized Inquiry Package (GIP) may not be in use (change items 1 and 4). Adabas as the DBMS will affect indexes, so it is uncertain if indexes still exist in the system in the original scheme (change items 2, 3, 5, and 6).

1. See if the report from program PR0590 to print GIP report definitions is available. If the report is not available, then execute the program. There will be a series of questions to define the execution mode; respond "N" to the first three questions. The fourth question is "PRINT LIST OF ALL SAVED INQUIRIES (y or N)". Respond with "Y". This is change 0096 in program PR0590.
2. Look in the Data Base Documentation Report (P10) in the Index section. Locate an index defined with a total key length of 44 characters or more (total key comprises up to four fields defined as index keys). Perform the Tally function, TALLY/xxxx/(first key field) on a value that will display multiple screens. The last entry on one screen should not repeat on the next screen. Change 0211 corrected the duplicate display that previously occurred.
3. Using the same report as in #2, locate an index with a key field that has a translation associated with the code. The Data Element section of the P10 will show if there is a translation record associated with the field. Perform the Tally inquiry. The response should display and page (multiple screens returned) properly. Without change 0252 in PR4220, a page/screen repeated over and over.
4. Execute PR0510 to define a GIP using the "BLANK" reserved word to control the line formatting, or review the PR0590 report to see if the word is used. In defining a report, use "BLANK" in the PRINT statement, e.g., PRINT CS-CASENO CS-BRANCH BLANK 10 CS-STATUS. This is change 0304 in PR0510.
5. Look in the Data Base Documentation Report (P10) in the Transaction Section for a field with associated entries in columns 14 and 15 that identify the index(es) for which the field is used as a key. This is change 0324 in PR0010.
6. Check the P10 report to see if a message is listed saying that the index display line is too long. Perform this indexed inquiry on-line and see that the last column is truncated. The screen line is 80 characters and a total of the field lengths for the display will be greater than 80. There are two MODU changes in PR3210 to enable this display.

SUMMARY OF PRIVATELY FUNDED CHANGES
TO PROMIS





CHANGE NUMBER	REPORT DATE	CHANGE DATE	PROGRAMMER	PROGRAM/MODULE	CODE
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DESCRIPTION

0022	022280	032281	D. Wright	Data Base Tailoring PR3800	9001
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Reason for Change: Program PR3800 creates the data base files (F01-F05, F10, and F15,) plus the F07 currency file. No option existed to create the files separately.

Impact: If it was necessary to recreate the F07 file, the data base files also had to be recreated, thus losing data entered into those files, or forcing the data base file to be retrieved from backup. This change presented the option of creating only the F07 file.

Comment: Add capability to create only the F07 file.

0036	061080	061881	D. Lazar	Data Base Tailoring PR0120	9001
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Reason for Change: The maximum number of entries in copy library WP1201 was fixed at a size compatible with the prototype PROMIS data base.

Impact: The table was not automatically generated in the proper size and required manual adjustment. The smaller table prevented the proper suffix value from being appended to the data field label, for uniqueness.

Comment: A change was made so that in creating copy library WP1201, the size of SS-TRANSTB-SEQ-TABLE-FILLER is based upon the size of SS-TRANSTB-FIELD-LIMIT and SS-MAX-NUM-LINES in copy library WN9913 rather than on the values in the file P12DAT.

0038	061881	061881	D. Lazar	Data Base Tailoring PR0120	9001
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Reason for Change: If no summary field was defined in the F01 or F03 files, the 03 level area was generated in the record format for the summary area, but without fields or further definition of the summary area.

Impact: Use of this record format with the 03 level and no 05 levels below it resulted in COBOL compile errors in approximately 12 programs.

Comment: A change was made to create a one character summary area in the F01 and/or F02 files when no summary data exist in those files. This change prevents compile errors from occurring in the several programs that have hard-coded references to the F01-SUM-DATA and F02-SUM-DATA areas.

0039	042481	061881	D. Lazar	Data Base Tailoring PR0120	9001
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Reason for Change: If new records are added to the P12DAT file, the DI-LINE-DIRECTORY in PR0120 could become full.

Impact: PR0120 could abort with a "SUBSCRIPT OUT OF RANGE" error, without any indication to the user as to how to fix the problem, delaying system generation.

Comment: A change was made to display the error message "LINE DIRECTORY FULL" if the DI-LINE-DIRECTORY becomes full.



CHANGE NUMBER	REPORT DATE	CHANGE DATE	PROGRAMMER	PROGRAM/MODULE	CODE
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DESCRIPTION

0042	102780	072281	D. Lazar	Data Base Tailoring PRJ100	9001
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Reason for Change: The label of an inquiry and the labels and data entry areas for its key fields exceeded the eighty character limit of the terminal screen width.

Impact: The Menu Screen file could not be created, thus stopping the system generation process. The user could only decrease the field label or field size in order to create the file.

Comment: Change made to place the label and the entry area for a key field on separate lines in the menu if they do not both fit on the same line.

0043	072081	072281	D. Lazar	PROHLS Screens PR4100 Data Base Tailoring PRJ100	9001
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Reason for Change: Menu Screens for the forms and court scheduling modules were generated, even though these modules were not in the on-line system.

Impact: Unnecessary screen and code generation were being performed.

Comment: Change made to eliminate the menu screens and change also requires a modification to PRJ100.

0044	072081	072281	D. Lazar	Data Base Tailoring PRJ100	9001
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Reason for Change: The last page of the inquiry menu did not wrap around to the first page of the menu.

Impact: Once the last page of the inquiry menu was reached, the operator had to clear the screen and request the menu again. With this change, the first menu page was displayed after the last.

Comment: Change made to wrap around to the first page of the menu after the last indexed inquiry menu screen is displayed.

0045	032480	072281	D. Lazar	Data Base Tailoring PRJ100	9001
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Reason for Change: Generated working-storage program code contained null characters instead of spaces.

Impact: The Menu program compiled with this generated code did not execute properly because of the unexpected difference in the program's initial storage values.

Comment: Change made to replace the nulls with spaces in copy library WPJ108.



CHANGE REPORT CHANGE
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PROGRAMMER PROGRAM/MODULE

DESCRIPTION

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0047 022880 072281 A. Behnke Data Base Tailoring 9001
PR3300 TS3

Reason for Change: On an update screen, the cursor was not positioned at the beginning of the field when there was only one field in the record.

Impact: The user must position the cursor at the beginning of the field before entering a field value.

Comment: Cursor not positioned correctly when transaction contains only one field.

0048 050780 072281 A. Behnke Data Base Tailoring 9001
PR3300 TS3

Reason for Change: Generated program code for fields allowing default values, or numeric with decimal was incorrect.

Impact: The user could not enter "D" for default or a decimal value into the update screen. Therefore, some data base records could not be added.

Comment: Entry screen does not allow "D" for Default or implied decimal field values to be entered. Items in the verification data at the top of an update identification division.

0051 050581 072281 A. Behnke Data Base Tailoring 9001
PR3300 TS3

Reason for Change: The update screen generation process did not place as many fields on a line as it should have.

Impact: The screen generation required more lines for one transaction than necessary, and may have prevented another transaction from sharing the same screen.

Comment: Additional entry field on line not generated although there is enough room remaining.

0052 021081 072281 A. Behnke Data Base Tailoring 9001
PR3300 TS3

Reason for Change: An unnecessary COBOL statement was generated if the CO record had no children.

Impact: Program PR4300 could not compile.

Comment: If the "CO" record does not have children, the item "USS-CO-LINE-GROUP" is generated when not needed causing compile errors in PR4300.

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DESCRIPTION

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0053 031881 072281 A. Behnke
PROMIS Screens 9001
PR4300
Data Base Tailoring TS3
PR3300

Reason for Change: The second line of a two line message displayed by the Update program is unprotected. Only the first line of the display should be unprotected.

Impact: All unprotected data is transmitted back to the computer, thus the second line message was treated as data entry and rejected. The user would then have to clear the screen and begin the update again.

Comment: When a two line message consisting of the user input and computer response is returned to the top of a cleared screen, the second line is displayed as unprotected. This change also requires modifications to PR3300 and FI3300.

0034 061780 072281 A. Behnke
Data Base Tailoring 9001
PR3300 TS3

Reason for Change: The translation of a field defined as "translation supplied on add" was not displayed when the record in which the field occurs was updated in the "I" update mode.

Impact: Without the translation of the field, the user can only verify if the correct code value has been entered by performing an inquiry on the record just entered.

Comment: On initial mode screens when the user enters a field to be translated on the next screen, the translation screen is skipped and the next transaction is displayed.

0055 050181 072281 A. Behnke
PROMIS Screens 9001
PR4300 TS3
PN9991 [History Only]

Reason for Change: If a problem occurred in retrieving a record during the update process, only a general error message was returned to the operator.

Impact: By identifying to the operator the file and record number on which the error occurred in the message, the time required to research and resolve the problem is drastically reduced.

Comment: PN9991 -- Change to always return to the requesting program the file and record number on which an unsuccessful I/O operation was executed.

PR4300 -- File status message does not print which transaction had the error if there are multiple transactions on a screen. In addition, file number and record number are missing when file status 30 or 56 occurs.



CHANGE NUMBER	REPORT DATE	CHANGE DATE	PROGRAMMER	PROGRAM/MODULE	CODE
0056	070780	072281	A. Behnke	PROMIS Screens PR4300	9001 TS3
0057	031281	072281	A. Behnke	PROMIS Screens PR4300	9001 TS3
0059	090181	092581	A. Behnke	PROMIS Screens PR4300	9001 TS3
0060	072281		A. Behnke	PROMIS Screens PR4300	9001 TS3
0062	050881	072281	A. Behnke	Data Base Tailoring PR3300	9001 TS3

DESCRIPTION
Reason for Change: When errors occur in both the data entry and next transaction request, only the error message for the data entry is displayed.
Impact: Since only the data entry errors were identified, the user would correct those and expect the transactions to be accepted. However, the error in the next request area would then be displayed, thus slowing the data entry process.
Comment: If there are errors in both the current transaction and the next transaction key, only the error message for the current transaction is displayed.
Reason for Change: The COBOL statement STOP RUN was included in the source code.
Impact: The statement was unnecessary because the program was controlled by the PROMIS monitor program or by CIGS.
Comment: Stop run statement not required.
Reason for Change: When the F01 or F02 file does not have summary field definitions, the resulting generated code is incorrect.
Impact: Programs using the generated code will not compile, thus preventing the system from being generated completely.
Comment: Eliminate compile errors that occur when the F01 and/or F02 file contains no summary data.
Reason for Change: The message length for the line 21 message was too long, and overlaid the message area for line 24.
Impact: The user did not receive the accurate message for line 24.
Comment: When message is sent to line 21 of the screen, the first character of line 22 is erased.
Reason for Change: The COBOL statements were generated with a blank between the field name and period ending the statement (i.e., MOVE F-GS-TRDATE TO W-GS-TRDATE .)
Impact: Warning messages on the placement of the period were issued during the compilation of the program using this generated COBOL code.
Comment: Periods misplaced in generated code from PR3300.



CHANGE REPORT
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PROGRAMMER PROGRAM/MODULE

DESCRIPTION

0064 050181 072281 A. Behnke Data Base Tailoring 9001
TS3

Reason for Change: Blank lines were generated in the screen format preceding each transaction area.

Impact: The blank lines decreased the total lines available on the screen for transactions to be defined. By removing these blank lines, it was possible to include an additional transaction on the update screen. The user could enter more data on one screen rather than request another screen displayed for data entry.

Comment: Code added to delete blank lines on entry screens. The blank lines that can be suppressed precede each transaction entry area. This change also requires a modification to FI3300.

0065 050181 072281 A. Behnke Data Base Tailoring 9001
PR3300 TS3

Reason for Change: No documentation was included in program PR3300 on how to generate more than two transactions per update screen.

Impact: Parameters in the program restricted the number of transactions generated on one screen. The user did not know what or how to adjust this generation feature.

Comment: [History Only] Documentation missing on how to fit more than two transactions per screen.

0067 072281 A. Behnke Data Base Tailoring 9001
PR3300 TS3

Reason for Change: The number of fields in the record exceeded the area reserved for the data entry format.

Impact: The update screens could not be created.

Comment: Entry area too small for one transaction, error message P3105, P5020 or P5250. This change also requires a modification to FI3300.

0072 042381 072281 A. Behnke Data Base Tailoring 9001
WN3301 TS3

Reason for Change: No documentation was provided describing how to edit screen generation parameters when no ditto fields or triggered transactions are defined.

Impact: The screens would be generated with the original parameter values, thus affecting the procedures the user would follow during data entry.

Comment: Missing documentation on how the user indicates that there are no ditto fields and/or triggered pairs.



CHANGE NUMBER	REPORT DATE	CHANGE DATE	PROGRAMMER	PROGRAM/MODULE	DESCRIPTION
0074	071781	072281	A. Behnke	PROMIS Screens PR4300	9001 TS3
Reason for Change: A relative record number was moved to the update screen on modifies and deletes of translation transactions.					
Impact: The translation file is an indexed file, addressable by record key, not relative record number. This number on the screen was unnecessary.					
Comment: Do not move relative record number to update screen if transaction is modify or delete transaction.					
0092	051581	082081	A. Behnke	Generalized Inquiry PRO510	T3
Reason for Change: The GIP definition program displays the error message TALLY/BREAK NO MATCH when the TALLY/BREAK statement was deleted.					
Impact: The GIP definition would not pass the edit because of the inconsistency in the TALLY/BREAK usage. The user would not be able to execute the report unless additional GIP statements were deleted and readded or the entire GIP definitions reentered.					
Comment: Error message about TALLY/BREAK NO MATCH incorrectly displayed after TALLY/BREAK statement is deleted from inquiry.					
0095	061581	082081	A. Behnke	Generalized Inquiry PRO520	T3
Reason for Change: Depending upon the record size of the extracted data, the data from the last field in the record would not print properly.					
Impact: The GIP report would not provide the accurate data for the user.					
Comment: If the record size is 64 or 128 characters, and the last field in the record is to be printed; bad data prints in the report column for that field.					
0096	082081	082081	A. Behnke	Generalized Inquiry PRO590	T3
Reason for Change: No report was available of the GIP report definitions.					
Impact: Without documentation of the report definitions, the user was required to execute the GIP definition program in order to review all definitions.					
Comment: Enhancement to print saved source inquiries from dictionary file.					

CHANGE REPORT
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PROGRAMMER PROGRAM/MODULE

DESCRIPTION

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0105 090381 092381 J. Sirvis Data Base Tailoring 9001 PR3210

Reason for Change: An inquiry screen would not be generated properly when a transaction could fit only one field on a line and additional lines were to be created.

Impact: The inquiry screen format would not contain all the fields in the transaction. The user would thus not be able to view all data in the record.

Comment: Screen file record not formatted properly for transaction that contains only one field on a line and more lines exist.

0130 092381 100681 D. Lazar Data Base Tailoring 9001 PR3100 9101

Reason for Change: The Menu generation program PR3100 did not generate a label suffix for a field used more than once in the same record.

Impact: Compilation of the generated code into the Menu program PR4100 resulted in "undefined data name" messages, which are fatal compile errors.

Comment: This change eliminates the duplicate labels that are generated in the code for menu screen processing when the same field appears more than once in a relative record.

0133 092281 100681 S. Falter Management Report 9001 PN095A

Reason for Change: The MRP definition routines prevented modification of the "OTHER" column selection.

Impact: The MRP report was produced exactly as the initial definition was entered. Addition or elimination of the "OTHER" column was not allowed. The user was forced to define another set of report columns for use in the report.

Comment: Change to allow "Other Column" to be modified.

0134 020282 A. Behnke Management Report 9001 PR0640

Reason for Change: An incorrect subscript value would be set in the MRP program PR0640.

Impact: The wrong subscript would result in a program abnormal termination or erroneous data extraction.

Comment: Correct possible subscript error in paragraph P8700-LOAD-RECORD.

0136 110281 020282 K. Scarritt Management Report 7203 PR0620

Reason for Change: The MRP definition program terminated abnormally if an incorrect character string was entered.

Impact: The user would be delayed in processing the MRP definition.

Comment: Correct possible data exception if incorrect user string is entered. Subscript error occurs in P1000-PROCESS-SCREENS.

CHANGE REPORT CHANGE
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PROGRAMMER

PROGRAM/MODULE

DESCRIPTION

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0169 122981 021782 J. Sirvis PROMIS Screens
PN9974 0404

Reason for Change: An incorrect message was displayed during a summary inquiry when the case was not in the data base.

Impact: The message indicated to the user that an error had occurred in building the screen display, not that the case was not present.

Comment: Change message that is displayed when a summary inquiry is made and the case is not on file from "ERROR IN PREP-FILE STATUS 23" to "CASE RECORD NOT ON FILE".

0174 012682 022082 D. Lazar Data Base Tailoring
PRO120 9001

Reason for Change: The code generation program PRO120 would abnormally terminate in trying to generate the record format for a file to which no records were assigned.

Impact: The system generation could not be completed.

Comment: Change made to correct subscript error that occurs when the tailored data base definition does not contain any transactions in one of the files F01 - F05.

0175 112481 022082 D. Lazar Data Base Tailoring
PRO120 9001

Reason for Change: The generated code did not allow for more than 999 total fields in the data base and truncated the actual number to three digits.

Impact: The WP1201 table was generated incorrectly and when used by other programs to extract the label suffix, resulted in compile errors using the generated code.

Comment: Change made to prevent the truncation of the Occurs value of line SS-TRANB-SEQ-NUM in library WP1201. The truncation occurs when the value of TRANB- FIELD-LIMIT is greater than 999. This change also requires a modification to the File P12DAT. This change modifies the previous change of 061881.01.

0176 120381 022082 D. Lazar Data Base Tailoring
PRO120 9001

Reason for Change: The code generation program PRO120 would not generate the required summary areas in the F01 or F02 record layouts if no summary field was defined in the record. **Impact:** The data base program contains references to the summary areas in the F01 and F02 file formats. When no summary areas were included in the format, the program could not be compiled.

Comment: A change was made to print a summary length of 1 when there are no summary fields in either the F01 or F02 file. This change modifies the change of 061881.03.

CHANGE NUMBER	REPORT DATE	CHANGE DATE	PROGRAMMER	PROGRAM/MODULE	CODE
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DESCRIPTION

0177	112481	022082	A. Behnke D. Lazar	Data Base Tailoring PR0120	9001 9001
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Reason for Change: No limits were defined for several working-storage tables in program PR0120.

Impact: If the table size was exceed when loading data base definition values to it, the program would terminate abnormally.

Comment: This change corrects a subscript error that could occur when the TD-DATA-FIELD-TABLE is not large enough.

0180	032482	042782	F. Howard	Management Report PR0680	9015
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Reason for Change: The MRP report program PR0680 did not process multiple column values correctly and displayed an error message on the report.

Impact: The complete report could not be processed.

Comment: Correct error that occurs when using multiple column values. This error results in the message "ERROR IN PARAGRAPH P5410" being written to the report file.

0182	040482	050582	D. Wright	PROMIS Screens PR9975	9015 9019
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Reason for Change: The edit program received a key field with embedded spaces from the inquiry program and flagged the field as invalid.

Impact: The on-line inquiry could not be performed because the key values were rejected by the edit program.

Comment: Correct problem that may result in a key containing an embedded space being flagged as invalid.

0185	041282	050782	D. Lazar	PROMIS Screens PR4220	9015
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Reason for Change: The Tally program PR4220 could terminate abnormally.

Impact: Some or all on-line tally inquiries could not be performed, to get counts of certain field values.

Comment: Change to prevent possible data exception in paragraph P1500-CHECK-FOR-BLANKS.

0186	050682	082682	H. Haag D. Lazar	Management Report PR0625	9001 9015
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Reason for Change: The MRP compile program PR0625 did not generate the proper report instructions when parentheses are used in a report SRLFCR statement and a study date range is also specified.

Impact: The MRP report could not be produced with correct data.

Comment: Change to generate report properly when parentheses are used in report select and study date range is specified.



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DESCRIPTION

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0191 051882 051882 D. Wright Data Base Tailoring 9001
PR3210 9019

Reason for Change: The inquiry screen generation program PR3210 did not always create the proper format for printed inquiry output.

Impact: The printed inquiry output was not aligned properly because of the improper code generation.

Comment: Change TI creation of 6th utility record. If inquiry Print T-O-F not equal "Y" the label record is generated with "Term ID" in the preamble area and the first line of the printed inquiry output is not aligned properly.

AL01 100583 K. Scarritt Utilities 0407
(0195) PR0280

Reason for Change: The data base recovery program did not reset the ending log sequence numbers in the data base files to match that in the F09 control record.

Impact: Checking all files in sync or where to start next recovery?

Comment: At end of recovery, the end log sequence number in files F01-F05, F10, F15 is not set to the value in F09.

0198 072282 091582 K. Scarritt Management Report 9002
PN9952 9011

Reason for Change: If no MRP report was specified to be run, the program PR0650 would terminate abnormally.

Impact: The program did not indicate that no report had been requested, thus requiring that programming resources be used to determine the cause of the abnormal termination.

Comment: Change to correct possible data exception in paragraph H8005-D0-A in program PR0650 when file F10623 does not specify a report to be executed.

0199 032682 072282 J. Sirvis PROMIS Screens 9001
D. Wright PN9962 9001

Reason for Change: An indexed inquiry with record format display would not process properly at a page break.

Impact: All records for a given trigger would not be displayed in the inquiry.

Comment: Change to correct indexed inquiry processing when a display record format is used and multiple records are displayed for each index record retrieved. The problem appeared when a page break occurred before all of the records for an index could be displayed.



CHANGE NUMBER	REPORT DATE	CHANGE DATE	PROGRAMMER	PROGRAM/MODULE
0200	031182	111582	K. Scarritt	Data Base Tailoring
				PN99PI
				PN999B
				PN999I [History Only]

DESCRIPTION

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Reason for Change: When the F01 file was being processed sequentially, an end of file condition would be returned when a record with a delete indicator of "N" was read, regardless of whether there were more records. Also, if the F01 file were full and being processed sequentially, the retrieval program would loop.

Impact: In the first condition, all records in the F01 file would not be presented to GIP and MRP for report processing. In the second problem, the report could not terminate successfully.

Comment: Change to ensure that when records are being read sequentially via 3820, all records in the file are read rather than signalling END-OF-FILE when the first record is read with a value of "N" in the delete indicator; the change also corrects a loop that occurs in GIP and MRP when the F01 file is full. This modification requires changes to modules PN99PI, PN999I and PN999B.

Reason for Change: The number of F10 translation records to be used for a report defined with column values based on these records exceeded the number of records expected by the program. This created problems in PR0610 and PR0680 in definition and processing.

Impact: The MRP report for this particular set of translation records could not be processed.

Comment: PR0680 -- Both of the following errors usually occur because a large number of columns are created from F10 file records when using the "TRANS OF EACH" option. WT-NUM-REPORT-SETS not being computed properly because of leading truncation when value exceeds 99. Subscript error occurred in paragraph P4270 when loading column headings and the number of report sets exceeds 45. This modification requires changes to modules PR0610 and PR0680.
 PR0610 -- Program was stopping in paragraph P4610 with a file status 22 when there were more than 400 records in the translation file for a field which was being used for column values using the "TRANS OF EACH" option. Changed the WC-CG-F10-LIMIT from 40 to 99 to increase maximum number of translation columns to 990.

Reason for Change: The GIP report program issued an error message "SEQUENCE SORT ERROR" even though the sort was performed correctly.

Impact: The user would be unsure of the accuracy of the report data.

Comment: Error message "SEQUENCE SORT ERROR" prints even if file is sorted ok.

0207	062582	072682	F. Howard	Management Report	9001
				PR0680	
				PR0610	
0208	041282	091482	D. Lazar	Generalized Inquiry	9015
				PR0530	



CHANGE REPORT CHANGE
NUMBER DATE DATE

PROGRAMMER PROGRAM/MODULE

DESCRIPTION

Page 13

0211 081282 082082 J. Sirvis PROMIS Screens 9002
D. Wright WN997A 9002
RELINX
PR4220

Reason for Change: If the index key was 44 characters or more, the indexed inquiry and tally screens repeated on the next inquiry page, the same record as at the end of the previous page.

Impact: The count of the index records would be inflated, plus more pages would be required for the inquiry.

Comment: Change made to prevent error that occurs when a Cross-Reference index key contains 50 characters (44, or more if Tally Inquiry) of user-defined data. The error results in the same record being displayed at the bottom of one page of a response and at the top of the next page in the Tally and Cross-Reference inquiries. This correction requires changes to modules RELINX, WN997A, and PR4220.

0212 062582 082382 D. Lazar Management Report 9002
PN995B
DN9953

Reason for Change: The MRP definition did not allow use of field data name with a numeric suffix, those fields which occurred more than once in the record.

Impact: The user was restricted in which data fields could be used in the report definition.

Comment: Change made to allow entry of field name with sequence number appended in Study Date field and Column field. This change requires modifications to modules PN995B and DN9953.

0213 040582 082682 J. Sirvis Management Report 9001
PN995A

Reason for Change: The MRP definition program would terminate abnormally.

Impact: The user would not be able to define a MRP report as he had designed.

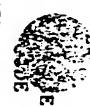
Comment: Change to correct possible data exception in paragraph P7105-UPDT-01-ADD.

Reason for Change: The data base program did not verify that a record in the delete chain also had a delete indicator of "Y".

Impact: Records would be overlaid by other data in the file, thus allowing two parent records to point to the same record slot.

Comment: Change to prevent PR4810 from using Deleted Record Address as address of next record to be added if record at Deleted Record Address location is not a deleted record (Delete Indicator = "Y"). This modification requires changes to modules PN999F, PN999I, and WSREL.

0221 111582 111582 D. Wright Data Base Tailoring 9001
PN999F
PN999I
PN999I [History Only]
WSREL



CHANGE NUMBER	REPORT DATE	CHANGE DATE	PROGRAMMER	PROGRAM/MODULE	CODE
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DESCRIPTION

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0226	122281	110182	D. Lazar	Date Base Tailoring PR3210	9001
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Reason for Change: The generated code for a related indexed inquiry did not allow for suffix numbers on COBOL names of fields.

Impact: The indexed inquiry program would not compile because of unresolved data names.

Comment: Change to append sequence numbers in generated code to COBOL names of fields that appear more than once in the same transaction and are display fields for related indexed inquiry. This correction prevents compile errors in PR4210.

0240	092082	102282	G. Abrams	Date Base Tailoring PR0010	7590
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Reason for Change: The data base documentation report program would not display an error message when the table storing the translation record names became full.

Impact: Translation record types not loaded to the table would not appear on the report.

Comment: Change to print error message if the table used to store translation names becomes full.

0244	092282	101882	J. Sirvis	PROMIS Screens PR4400	9002
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Reason for Change: The edit program could not verify two key fields if both fields had related edit or translation record definitions.

Impact: The edit program would abnormally terminate with a zero subscript when attempting to edit two key fields with translation definitions. The user would be restricted to use only of the first key in order to perform the inquiry.

Comment: Change made to prevent use of a subscript of zero when an index has a key field with a file edit following a key field with a file edit or file translation.

0246	100782	110982	M. Ferrenz	Management Report WN9958 PN995A	9002
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Reason for Change: The MRP definition program would not allow more than four select statements to be created or changed when modifying the original report definition.

Impact: The user would not be able to define the report as he had designed.

Comment: Change to allow MLINE and MREPT modes to create/update more than four lines of select statements. This correction requires changes to modules PN995A and WN9958.



CHANGE NUMBER	REPORT DATE	CHANGE DATE	PROGRAMMER	PROGRAM/MODULE
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DESCRIPTION

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0247	101182	110982	M. Ferrenz	Management Report PN995A	9002
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Reason for Change: The Add Report function of the MRP definition was restricted to no more than four select statements.

Impact: The user was not able to define a report according to his exact selection criteria.

Comment: Change to allow more than four lines of select statements to be created in AREPT mode.

0249	101482	110982	M. Ferrenz	Management Report PN995A	9002
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Reason for Change: The MRP definition program would not delete all select statements that had been flagged for deletion.

Impact: The MRP report would not process correctly, or it could produce incorrect results.

Comment: Ensure that when select statement is being modified or deleted, all of the old select lines are deleted.

0251	101582	110982	M. Ferrenz	Management Report PN9955 PR0610 PR0680	9002
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Reason for Change: The MRP definition program did not process the column file properly, depending on the in-core or file translation field value.

Impact: The MRP report definition would not be correct. The user would have to change the report format to define column values in descending value order.

Comment: Change to correct invalid key on read of MCL-COLUMN-FILE that occurs when processing an in-core or file translation field from the data base that contains a value greater than any in-core or file translation value. This correction requires changes to modules PR0610, PN9955, and PR0680.

0252	110582	110582	D. Wright	PROMIS Screens PR4220	9001
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Reason for Change: The tally program PR4220 would not correctly process index key fields entered by the user if the key field had a related translation file definition.

Impact: The same page of the tally display would be displayed repeatedly. The user could not perform the inquiry using that particular key.

Comment: Correct problem that results in the same page of a tally response being displayed repeatedly. This problem occurs when one of the key fields entered in the tally inquiry has a file translation.

0260 091582 121782 F. Howard Data Base Tailoring 9002
PRJ100 2204

Reason for Change: The generated code for menu input was incorrect for record type "DT".

Impact: The on-line inquiry program could not be compiled because of errors embedded in the generated code. Also the user was restricted from assigning "DT" as a record type.

Comment: Change to correct compile errors in PR4200 that occur if the data base contains a "DT" record type.

0263 121782 030283 K. Scarritt Management Report 9002
PR0625 9011

Reason for Change: The MRP program abnormally terminated if the first character of a select line is a comma or slash.

Impact: The MRP select statements could not be compiled, so that the MRP report could not be produced.

Comment: Correct data exception that occurs in K4100 if the first character in a select line is one of the special characters (,) or /.

0264 111781 122182 D. Wright Data Base Tailoring 9002
K. Scarritt PR3860 7203

Reason for Change: The logic in the code generation program PR3860 assumed that record types "EV" and "SC" would always be defined in the data base.

Impact: The program would terminate during the code generation for these record types, without completing code generation for additional records types. Later programs compiled with this generated code would not execute properly, or would not compile at all.

Comment: Modify program so that it does not terminate if there is not an "EV" or "SC" record in the data base definition.

0266 011382 030383 K. Scarritt Management Report 7203
PR0610 9002

Reason for Change: The MRP definition program would terminate abnormally if no TOTAL column were defined.

Impact: The user was forced to include a TOTAL column in each report definition in order to produce any reports.

Comment: Change to correct data exception that occurs at P4330 when no total column specified.

0267 011883 011883 M. Ferrenz Management Report 0215
PR0680

Reason for Change: The MRP report program PR0680 would terminate abnormally if the last line of a report definition had been deleted.

Impact: The MRP report could not be produced.

Comment: Correct data exception that occurs in paragraph P4460-LOCATE-MATRIX-LINE when the last line of a report definition has been deleted.

CHANGE NUMBER	REPORT DATE	CHANGE DATE	PROGRAMMER	PROGRAM/MODULE
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DESCRIPTION

Page 17

0270 022883 022883 J. Sirvis

PROMIS Screens
PN9971
PN9972
PN9974
PR4400

9001
9002
9050
9099

Reason for Change: A related inquiry could only be performed using the parent key rather than the key of the trigger record.

Impact: All children records of the same type as the trigger record were displayed rather than just the trigger record. The user had to scan all records in the display to determine which triggered the index.

Comment: This change enables a related inquiry to be performed using either the key of the parent or the key of the self record. Prior to this change, the related inquiry was always performed as though only the key of the parent was provided, i.e., all occurrences of the self record were displayed instead of just the occurrence specified by the full key. This enhancement requires changes to the following: PN9971, PN9972, PN9974 and PR4400.

0271 030782 030183 H. Allen

Data Base Tailoring
PR3100
PR0015
WN3101

9001

Reason for Change: All entries on the inquiry menus were displayed in the order in which they were entered in the data base design.

Impact: The operator often had to page to other menu screens to find the selection he wanted. Menu selections could not be ordered according to frequency of usage.

Comment: WN3101 -- The change was the initial release of the table defining the selection order on inquiry menus. PR3100, PR0015 -- Enhancement to provide the user with the capability of defining the order in which transactions appear on the case-related inquiry menu and the indexed inquiry menu screens. A new copy library, WN3101, is compiled into this program after being edited to rearrange the order of case-related and/or indexed transactions. The following steps are required to install this enhancement:

1. Compile and execute PR0015. This program generates a report showing the order of transactions on the case-related and indexed inquiry menu screens as defined in modules WN3101, TRAITB and IDXT82. It also identifies any invalid entries in WN3101.
2. If both tables (case-related and indexed) have been modified:
 - A. Compile and execute PR3100.
 - B. Execute PR0140 to break out copy libraries.
 - C. Compile PR4100, PR4200, and PR4210.
3. If only the case-related table has been modified:
 - A. Compile and execute PR3100.
 - B. Execute PR0140 to break out copy library.
 - C. Compile PR4100 and PR4200.

This enhancement requires changes to PR3100 and PR0015 and the creation of WN3101.

0274	012683	030383	K. Scarritt	Management Report PN9958	9002 9011
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Reason for Change: The MRP definition program allowed invalid data to be entered for average and percent line definitions.

Impact: The MRP report could not be produced. An error message "COLUMN NOT FOUND" would be displayed.

Comment: Correct incorrect edit of average and percent lines that could allow the entry of invalid data, and as a result the message "COLUMN NOT FOUND" is generated.

0275	121082	030383	K. Scarritt	Management Report PR0610	9002 9011
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Reason for Change: When an error occurred in retrieving data from the F10 or F10620 file, an incorrect key was displayed.

Impact: An erroneous message was displayed for the report, thus increasing the difficulty in resolving the problem in reading the file.

Comment: Change to display correct key in error message due to error on F10 or F10620.

0279	030182	031083	K. Scarritt	Data Base Tailoring PR3100	9002
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Reason for Change: The extended inquiry menu would be generated even though there were no third-level record definitions in the data base.

Impact: An erroneous pointer value would be generated, thus interrupting processing for other screens in the menu screen file.

Comment: Change to avoid producing pointer for extended inquiry menu screen if there are no third level transactions and therefore no valid extended inquiries.

0283	030483	030783	J. Sirvia	PROMIS Screens PN9961 PN9971 WN997A	9001 9002
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Reason for Change: A general error message was displayed if a file error occurred during an inquiry request.

Impact: The message was of little use in determining that a file status "56" had been returned to the inquiry program, indicating a severe problem in the data base records.

Comment: Change made to display more specific error message if a file status 56 occurs in either the Case-Related (PR4200) or Cross-Reference (PR4210) inquiry. This modification requires changes to WN997A, PN9961, and PN9971.

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PROGRAMMER PROGRAM/MODULE

DESCRIPTION

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0285 031883 031883 M. Ferrenz Management Report 9002

Reason for Change: The MRP definition program redisplayed the add screen rather than the modify screen when an error was found in a select statement.

Impact: The user had to exit from the add screen and request the modify screen in order to correct the select statement.

Comment: Return to the terminal a modify screen with the data from the add screen when a select statement is found to be invalid.

0286 031883 031883 M. Ferrenz Management Report 9002

Reason for Change: The MRP definition program did not display the full line definition when the user requested the delete line screen.

Impact: All statements relating to the line could not be reviewed. The user had difficulty in determining that s/he was deleting the proper line.

Comment: Display the full line definition including the select statements when a delete line screen is returned. This change requires modifications to PR0620 and PN995A.

0287 031883 031883 M. Ferrenz Management Report 9002

Reason for Change: The MRP definition program accepted a blank line in the middle of a select statement.

Impact: Only the section of the select statement before the blank line would be processed. This portion of the select statement would be rejected as incomplete, or if it contained enough information to pass the edit, would result in a report with incorrect data.

Comment: Change to edit to flag as invalid a select statement with an embedded blank line. This change requires modification to PR0620 and PN995B.

0291 030983 030983 D. Wright Data Base Tailoring 9001
PN999F

Reason for Change: Modifications in CS data fields that are also non-primary index key fields would not be carried forward to the index records.

Impact: Key data displayed from CS records would reflect data prior to the data modification. Also, the user might experience some difficulty in performing the indexed inquiry. If he used a key value currently in the CS record, the indexed inquiry would result in a no record found condition.

Comment: This is a further change for the problem described by change 0225. Change 0225 created an error in the process of maintaining those indexes that contain CS data as part of their keys but are triggered by other than the CS record. The error occurs when data in the CS record are modified, and the data are key data for non-CS triggered indexes. All of the trigger records are retrieved and the existing indexes are deleted, but the new indexes are created with the data from the CS record as it existed prior to the modification.

0293 032283 032283 J. Sirvis Data Base Tailoring 9103
PR0010

Reason for Change: The data base documentation program did not verify that the index key field start position and length were correct.

Impact: If the user had not followed the correct procedures in tailoring the data base, these field values could be incorrect and cause problems in system generation and on-line processing.

Comment: Change made to edit the index key field start position and length for each key of each index entry in IDXTBL. This is designed to catch invalid values that can result from not following the proper procedures during data base and index tailoring.

0294 032883 033183 M. Ferrenz Management Report 9002
PR0640

Reason for Change: In processing a MRP report, if the result of a study date range or select on the CS level was false, the program continued to retrieve the mode records regardless of the conditional result.

Impact: The report processing time was excessive because of the unnecessary record retrievals.

Comment: Change to read only the first mode record for a case if the result of a study date compare or report select compare on the CS record is false.

0296 033183 040183 D. Wright Data Base Tailoring 9001

Reason for Change: The menu generation program created program code with bad values.

Impact: Compilations of the indexed inquiry using this generated code resulted in fatal compile errors.

Comment: Change to prevent the generation of an 01 group level item with a picture clause of X(000) that may occur in library WP3105.

0302 041883 041883 M. Ferrenz Management Report 9001
PN9955

Reason for Change: Incorrect processing of data passed between MRP program PR0640 and PR0670 resulted in counts accumulated in the wrong column.

Impact: The data on the MRP report would be incorrect.

Comment: Data are accumulated into wrong column because PR0640 split fields across MCL records but PR0670 only checked characters on first record.

0304 041783 G. McKain Generalized Inquiry 9002
PR0510 9019

Reason for Change: The GLP module had little formatting capabilities.

Impact: The user could only define the order of fields in a print line, with no other formatting options for spacing between columns of data or line indentation.

Comment: Enhance program to allow print formatting with the reserved word "BLANK".

0316 060383 060383 D. Wright Management Report 9001
PR0620

Reason for Change: The MRP definition program did not require the entry of the name code in the next transaction area.

Impact: The user would specify the next screen but not the associated name code. This resulted in an error message as both values were needed to determine the next screen.

Comment: Change to editing of the name code in the next transaction area so that it is required unless the next, rather than the current, screen is an REQ screen.



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PROGRAMMER PROGRAM/MODULE

DESCRIPTION

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0317 060683 061083 J. Sirvis Data Base Tailoring 9001
PRO010 Atlas

Reason for Change: In listing the cross-reference of data fields to records, the data base documentation report would list the record name for each occurrence of the same field.

Impact: The report was more detailed than necessary, with the redundant record names in the cross-reference.

Comment: Change made so that the name of the transaction in which a data element appears will be printed only once, even though the data element occurs more than once in the transaction.

0318 061083 J. Sirvis Data Base Tailoring 9001
PRO010 Atlas

Reason for Change: The data base documentation report still listed references to the older non-buffered version of PROMIS.

Impact: These references were unnecessary to a user with buffered PROMIS.

Comment: Changes made to delete references to non-buffered processing and to make warning message more explicit.

0324 020383 061583 D. Tversky Data Base Tailoring 9001
PRO010

Reason for Change: The data base documentation report did not provide a cross-reference of indexes to transaction records.

Impact: The user could not determine from the transaction table section of the report which fields were defined as index key fields.

Comment: Replace columns 14 and 15 with a column that indicates if the field is a key field in a cross-reference index.

0325 072481 061383 D. Tversky Data Base Tailoring 9001
PRO010

Reason for Change: During the tailoring process, the user could select the option of suppressing blank lines in on-line inquiries, but no indication of this option was documented elsewhere for the user.

Impact: The user could not determine if blank lines were to be suppressed without reviewing source code generated from the tailoring.

Comment: Add a message at the bottom of the translation record listing to indicate whether blank lines are suppressed in on-line inquiries.



CHANGE NUMBER	REPORT DATE	CHANGE DATE	PROGRAMMER	PROGRAM/MODULE
0332	081583	081583	A. Behnke	Generalized Inquiry PR0530
0333	041883	081883	G. Abrams	PROMIS Screens PN9977
0356	102783	102783	M. Ferrenz	Management Report PN9955
0357	102783	101883	M. Ferrenz	Management Report PR0680
0358	102783	102083	M. Ferrenz	Management Report PN9955

DESCRIPTION
Reason for Change: The GIP print program did not suppress printing of the group fields when a new page was started.
Impact: The second page of the GIP would contain superfluous data.
Comment: Group item appears in second print area after starting a new page when report contains multiline prints.
Reason for Change: Terminal attribute characters were included in data in a printed inquiry and data following those characters was not printed.
Impact: The user would not have a hard-copy record of all the data in the inquiry.
Comment: Correct error that occurs in the VAX version when a QURX related inquiry is made and sent to the printer. Because the terminal attributes are not removed, some of the data that follows the related key are lost.
Reason for Change: When the priority option was selected in a MRP report, some data was not processed.
Impact: The MRP report would not be accurate.
Comment: Change to correct initialization error which caused data to be missing from reports using priority option.
Reason for Change: Inefficient program data was available when file I/O errors occurred.
Impact: Resolution of certain MRP problems was very difficult without a program dump showing exact storage values and records processed.
Comment: Improve IO error messages. This change forces a dump (divide by zero) for some IO errors.
Reason for Change: Inefficient program data was available when file I/O occurred.
Impact: Resolution of certain MRP problems was very difficult without a program dump showing exact storage values and records processed.
Comment: Change to improve error reporting. Involves changes to PN9951 and PN9955. This change also forces a dump (divide by zero) if an unsuccessful read of the matrix file occurs.



CHANGE REPORT
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DESCRIPTION

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0373 112283 112283 M. Ferrenz Management Report 9001

Reason for Change: The compile of select statements was taking longer than necessary, due to scanning an area larger than necessary.

Impact: The MRP compile process did not execute efficiently, needlessly wasting the user's time.

Comment: Shorten scan of report select statement. This change was made for efficiency reasons only.

0374 112283 112283 M. Ferrenz Management Report 9001

Reason for Change: The MRP compile process created an invalid subscript value if there were more than one compare in the report select statement.

Impact: The MRP report could not be requested for processing.

Comment: Corrects invalid subscript in PR0640 - Paragraph P7510 (sometimes infinite loop) that occurs when the set statement for the report select has more than one compare. For IBM users, this same change must be applied to PR0615.

0378 110983 102183 M. Ferrenz Management Report 9001

Reason for Change: The MRP report program could not process the column file correctly.

Impact: The MRP report would be inaccurate.

Comment: Corrects error in read of MCL column file in paragraph R5410. (This fix was known as 102183.9999 on the last Prime version).

0384 120683 120583 M. Ferrenz Management Report 9001

Reason for Change: The MRP extract program did not close files after an abort routine had been executed.

Impact: On some vendor systems, the files remain open (in use) even though no programs is currently accessing the files. No other program can open the files for its use.

Comment: Change to P9500 to attempt to close files, avoid problem addressed by fix 0153, and prevent program from continuing after the abort routine has been called. The option of a deliberate divide by zero is provided. Error display logic is separated from abort logic so that P9000 data base access logic can display error but not stop.



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0385 (9999)	050583	050583	M. Ferrenz	Management Report PR0690
0387	102283	010584	D. Wright	Data Base Tailoring PRSB01
0451	060784	060784	M. Ferrenz	Management Report PR0610 PR0625
DC01		043083	G. Abrams	FORMPAC PNFM08 PNFM13 PRFMH1 WNFM13
DC02				
DC02				

DESCRIPTION

Reason for Change: The MRP modules had no capability to dump and restore its report source statements.

Impact: The user would have to re-enter all MRP definitions in the event of a head crash, or in the event of re-tailoring.

Comment: Modification to enable 690 to unload FI0620 to a flat file named MRPSRC.DAT and to load that file back into FI0620.

Reason for Change: The Security ACCS screen allowed only 15 positions for a transaction name.

Impact: The 16th position of the transaction name was truncated.

Comment: Change to allow 16 positions rather than 15 for the name of a transaction on the ACCS screen.

Reason for Change: The MRP definition program could not determine if the special characters B, E, and R were to be used as part of literal values or as separator for the date values.

Impact: If a literal value ended in B, E, or R before a date field compare in the select statement, the report could not be processed correctly.

Comment: Change character string used by PR0625 to mark begin, end, and run date, from 6 B's, E's, and R's to 6 Y's and S's. This is necessary to allow use of a literal ending in B, E, or R in a select just prior to the date field compare. Changes PR0610, PR0615, PR0625.

Reason for Change: Special conditional processing was developed for FORMPAC.

Impact: The user could enter a special conditional request in the form definition and insert a COBOL routine to be executed during the form generation.

Comment: PNFM08 -- Change to allow special conditionals. WNFM13 -- Changes to support entering an "S" in the conditional indicator and a 3-digit numerical value in the conditional area for special conditionals. PRFMH1 -- Allow "NNN" in conditional area, where NNN is the number of a special conditional, to be hard-coded by the user in the print program. Indicate that this is a special conditional by an "S" in the conditional indicator. PNFM13 -- Changes to support the allowance of special conditionals.

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DESCRIPTION

Page 27

FOO1 042483 G. Abrams FORMPAC PNF009 2204 1110
Reason for Change: The "CNN" record retrieval sequence was developed for FORMPAC.

Impact: The user could define which records (first, second, etc.) were to be retrieved during the form generation.

Comment: Before this enhancement FORMPAC retrieved the first record that met a conditional. Now FORMPAC can retrieve any occurrence of a record that meets a condition. This is done by specifying CNN in the first retrieval sequence field. By specifying CNN, FORMPAC will retrieve the NNth record that meets the condition.

MODU 071583 M. Holton Data Base Tailoring PR3210 3503
Reason for Change: The indexed inquiry display line was restricted to 80 characters. Use of five columns would often exceed this limit.

Impact: By truncating the last column length, the user could define five columns of data.

Comment: Additional change to add paragraph name L0208-set-lines. This change was made on 082583. Also, add routine for one-line indexed inquiry displays to truncate a field that is too long to fit on the display line. If another field follows the truncated field, it is dropped.

MODU 071583 M. Holton Data Base Tailoring PR3210 3513

Reason for Change: This is a further refinement of the code added to truncate the last column on an indexed inquiry.

Impact: The user could define five columns of display data.

Comment: Additional change to add paragraph name L0248-SET-LINES. This change was made on 082583.